

TOP SECRET 6664350

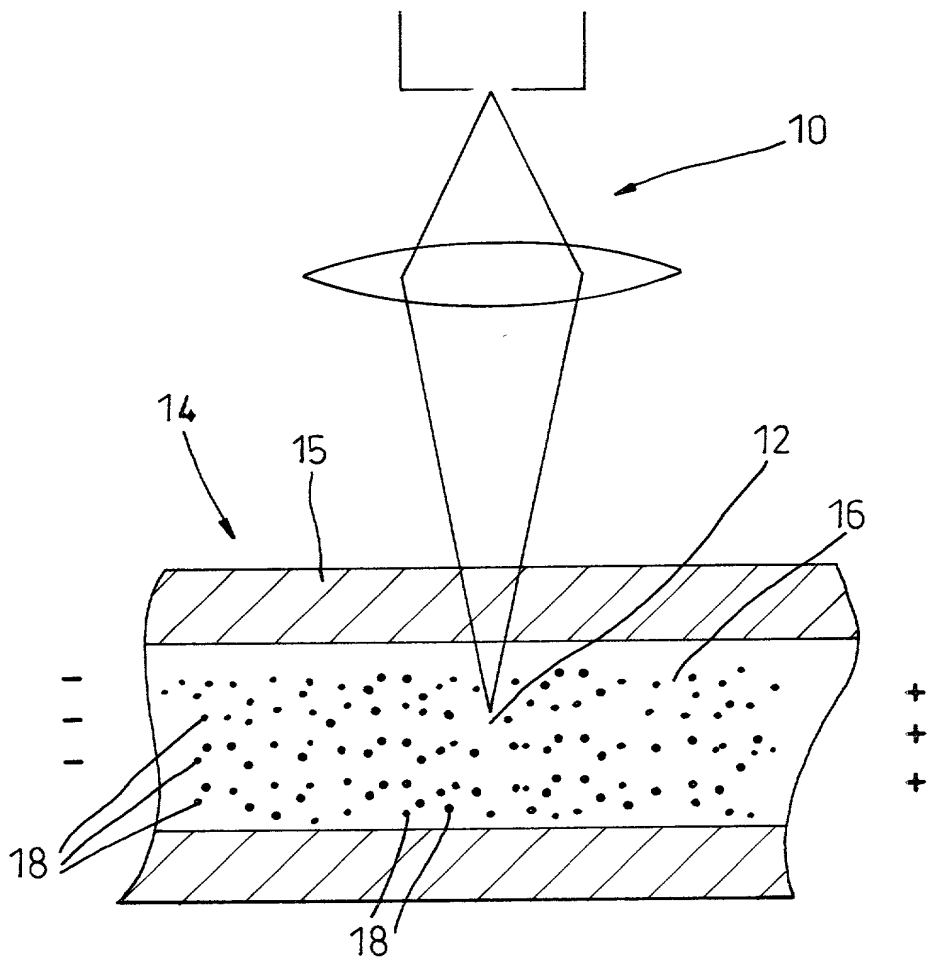


Fig. 1
(PRIOR ART)

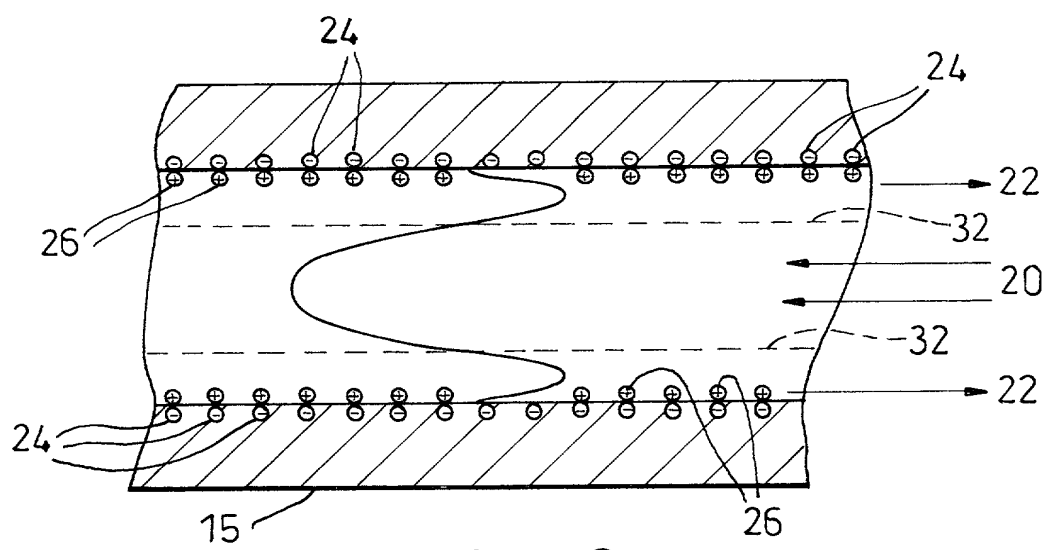


Fig. 2
(PRIOR ART)

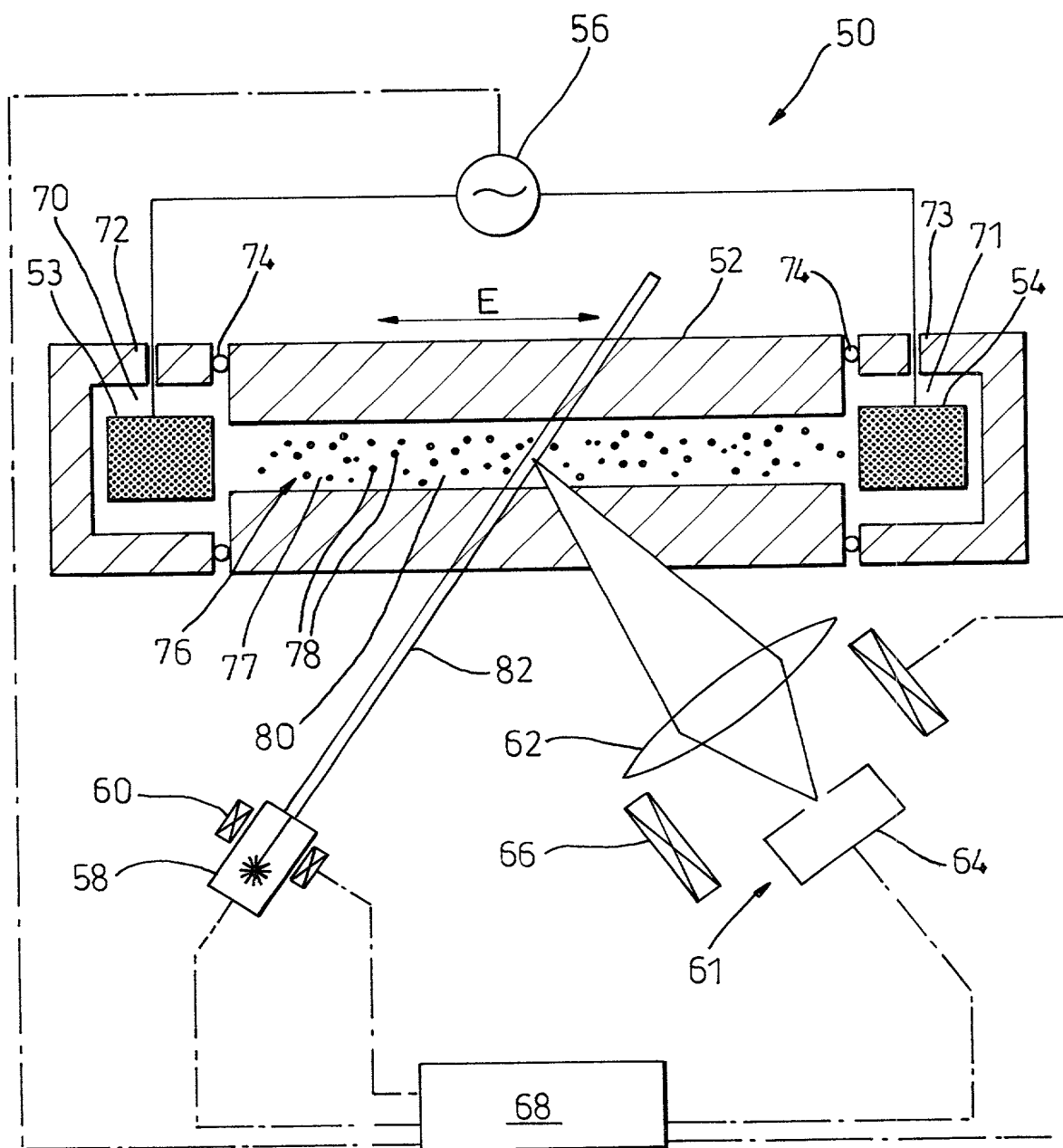


Fig. 3

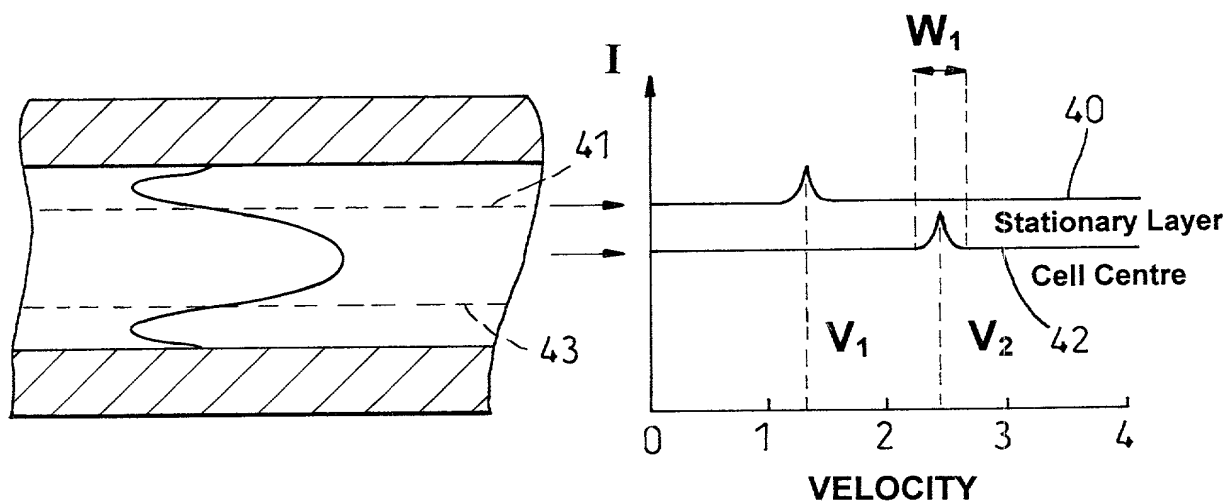


Fig. 4

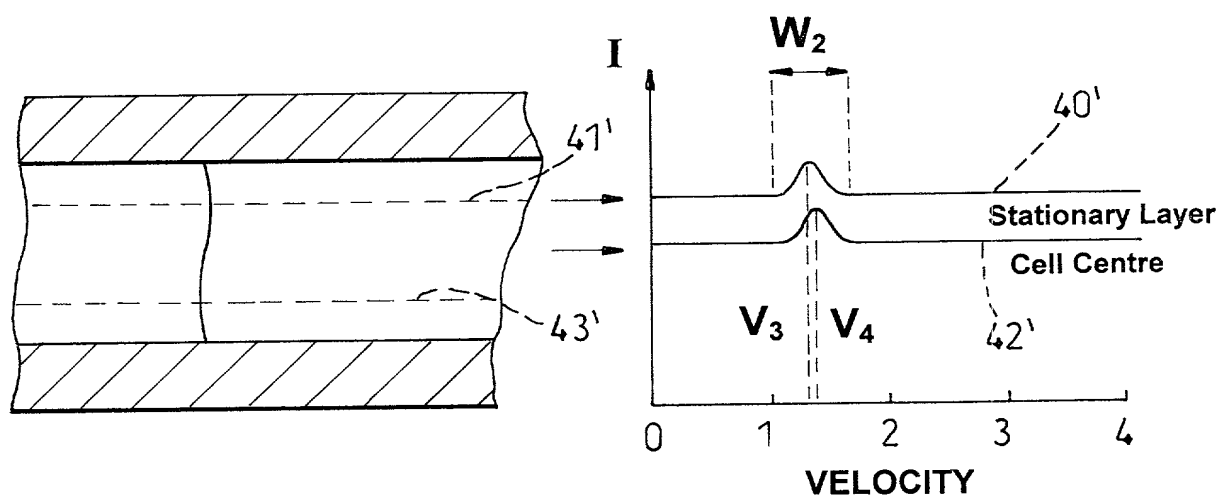


Fig. 5

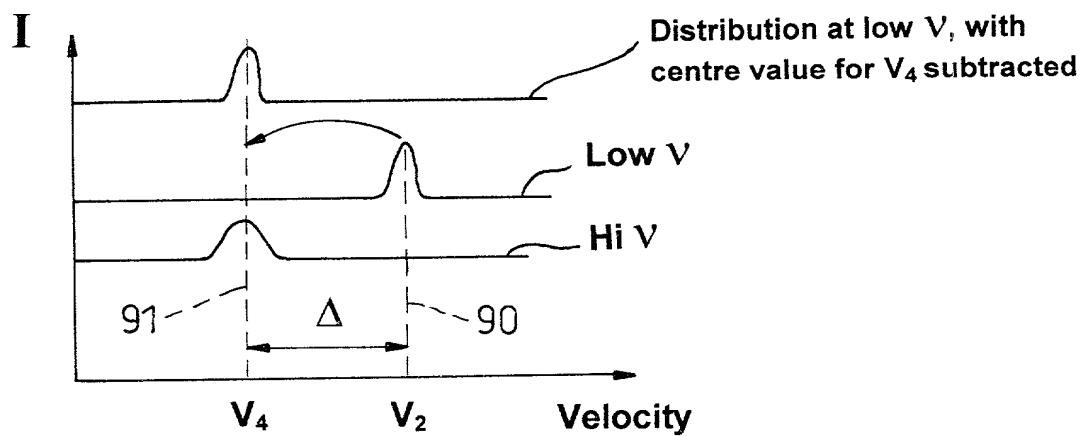


Fig. 6

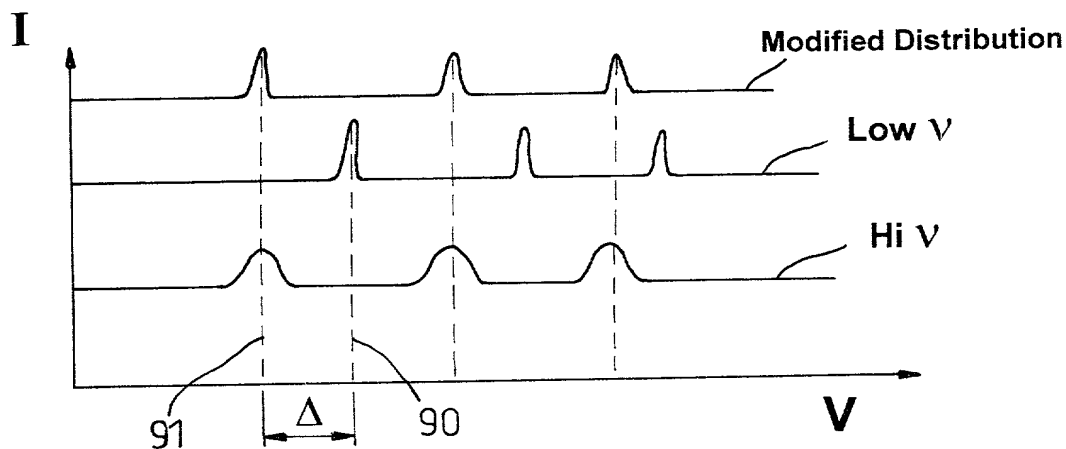


Fig. 7

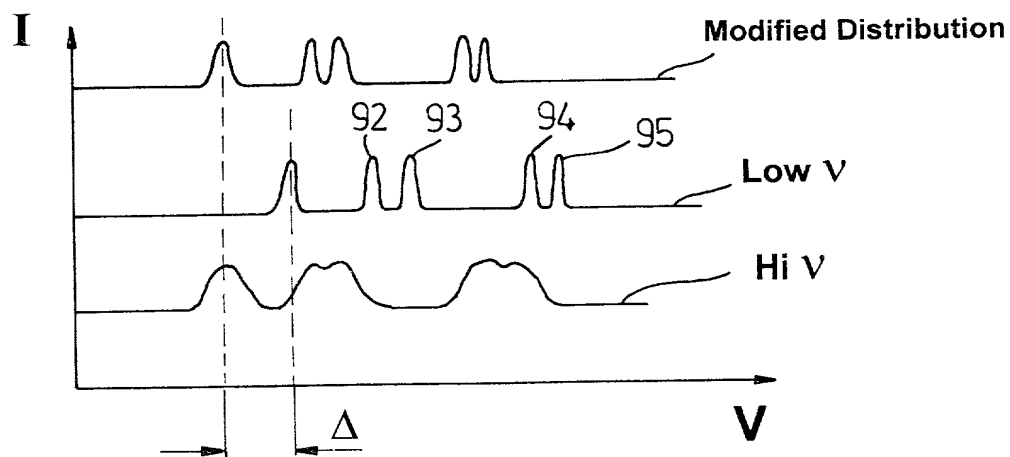
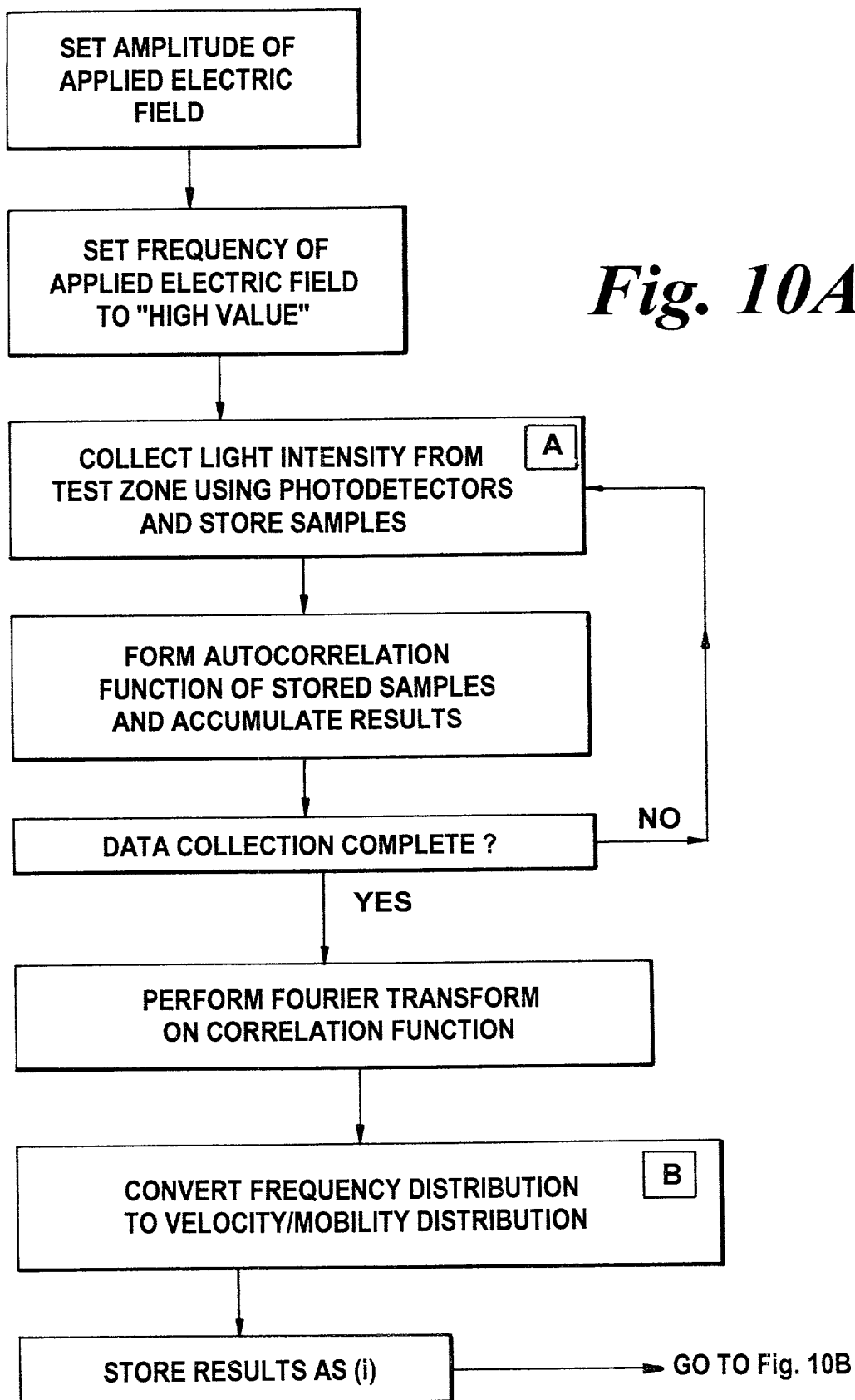


Fig. 8

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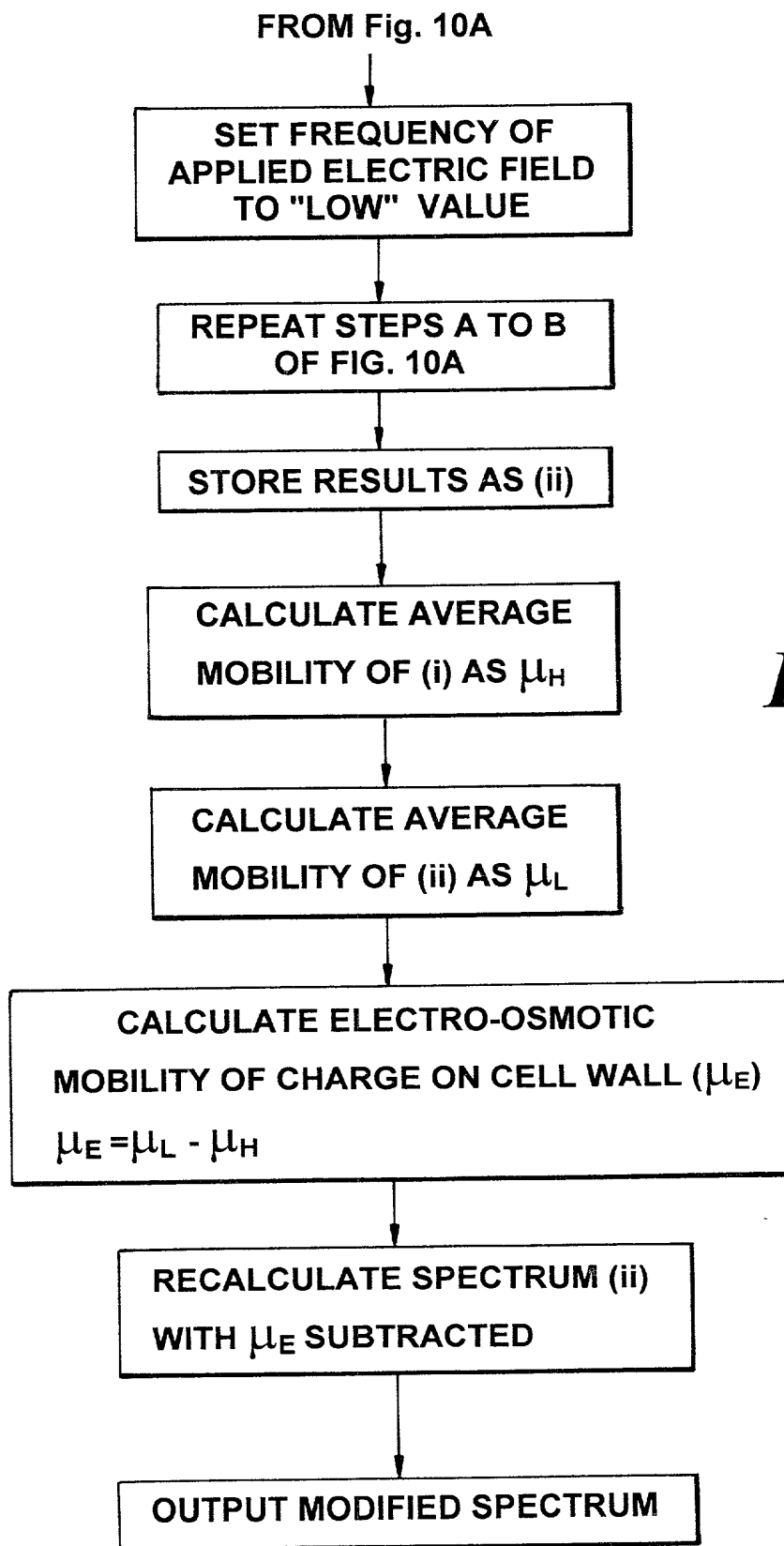


Fig. 10B

$$\text{MOBILITY } \mu = \frac{\text{VELOCITY OF PARTICLE (V)}}{\text{ELECTRIC FIELD (E)}}$$

Fig. 11A

$$\bar{\mu} = \frac{\int_{-\infty}^{+\infty} \mu f(\mu) d\mu}{\int_{-\infty}^{+\infty} f(\mu) d\mu}$$

WHERE $f(\mu)$ = MOBILITY SPECTRA

Fig. 11B

$$\text{ELECTRO-OSMOTIC MOBILITY } \mu_E = \bar{\mu}_L - \bar{\mu}_H$$

WHERE μ_L = PARTICLE MOBILITY AT LOW
FREQUENCY APPLIED ELECTRIC FIELD.

AND μ_H = PARTICLE MOBILITY AT HIGH
FREQUENCY APPLIED ELECTRIC FIELD.

Fig. 11C

$$f'(\mu) = f_H(\mu + \mu_E)$$

WHERE $f'(\mu)$ IS THE CORRECTED FORM OF
THE PARTICLE MOBILITY DISTRIBUTION FUNCTION.

Fig. 11D

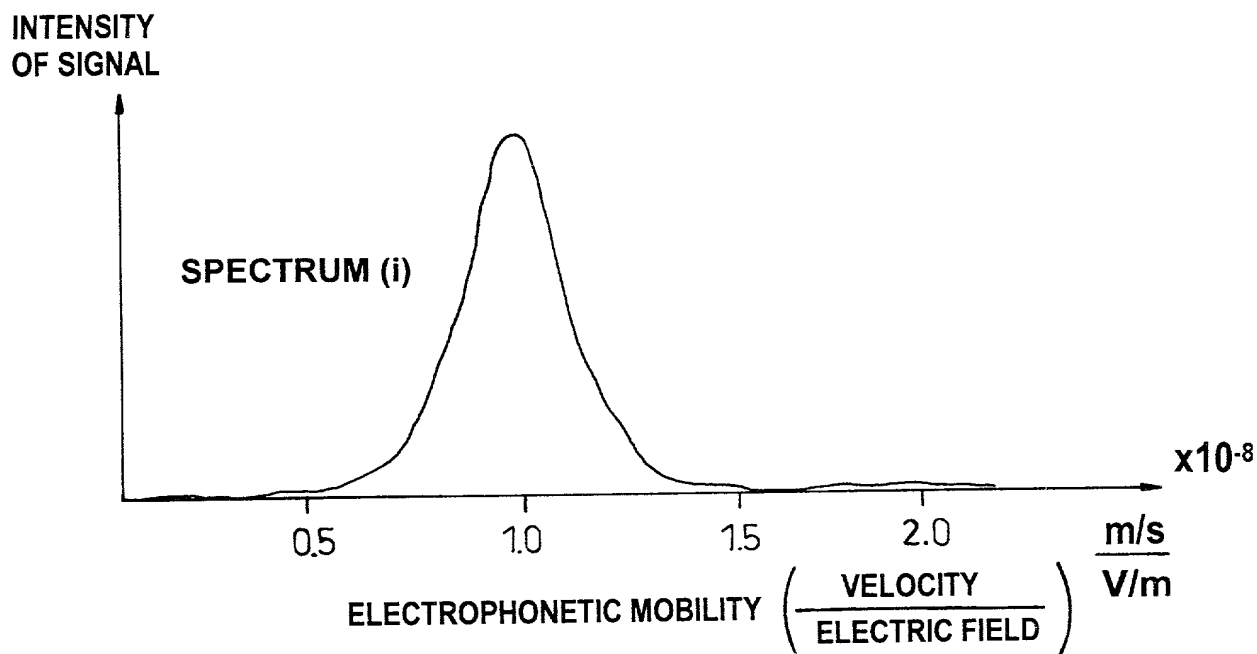


Fig. 12A

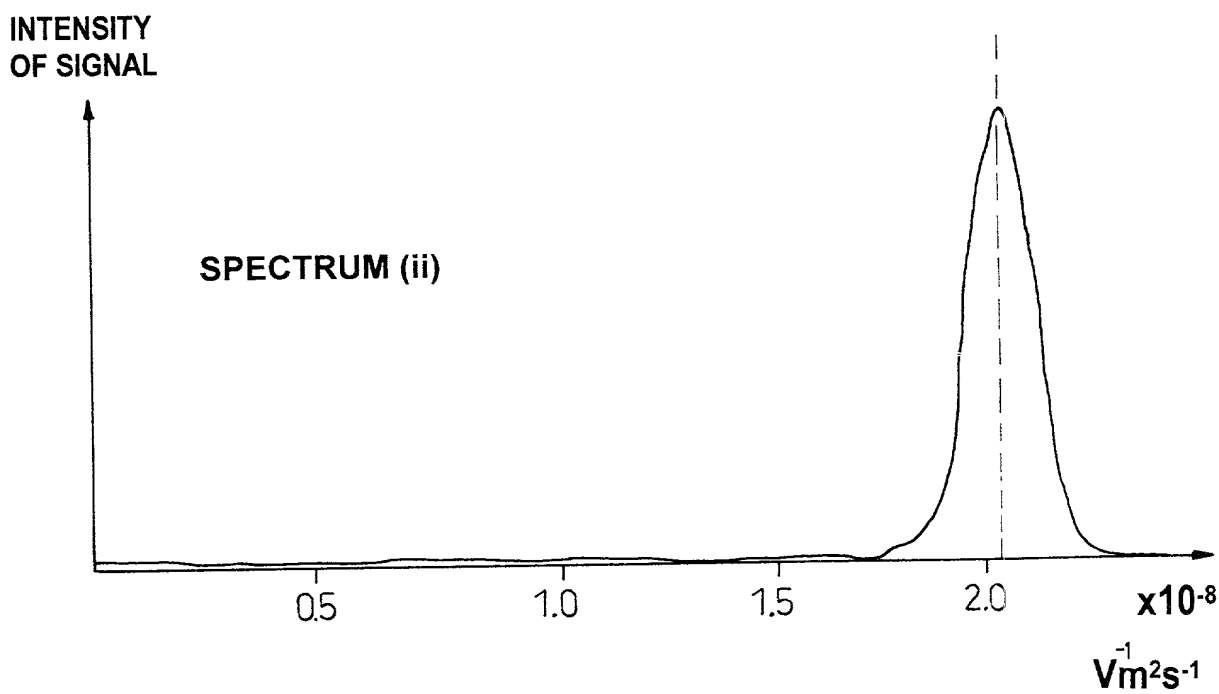


Fig. 12B

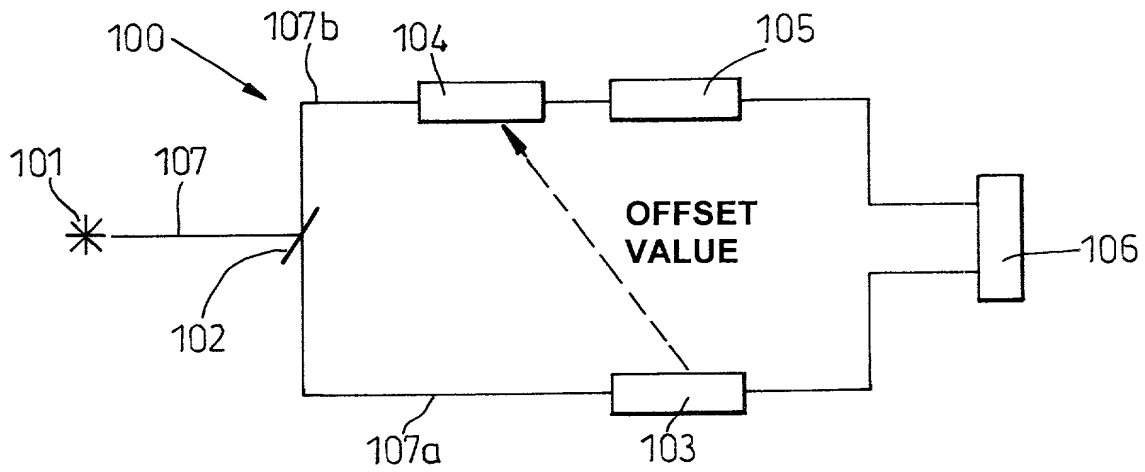


Fig. 9

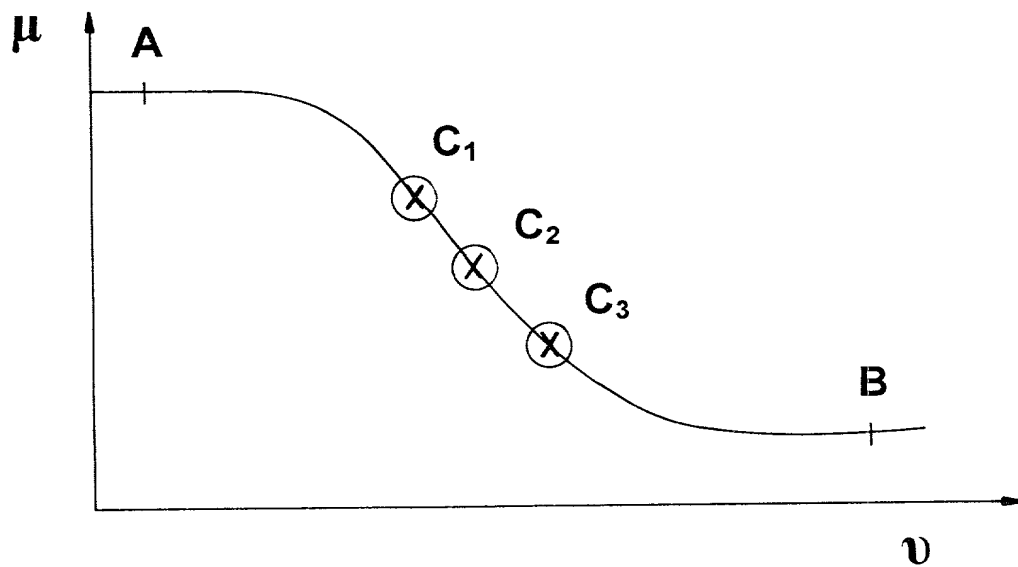


Fig. 13

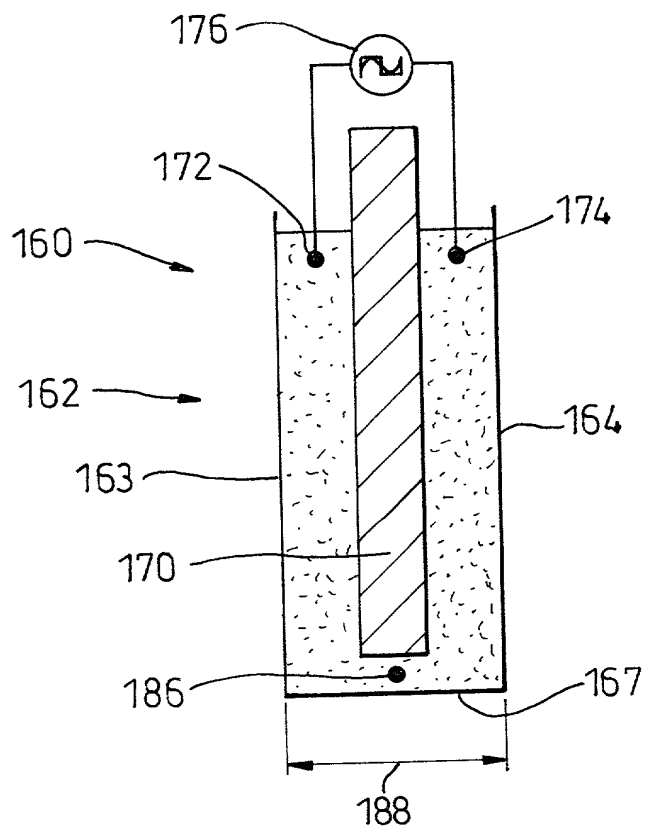


Fig. 16A

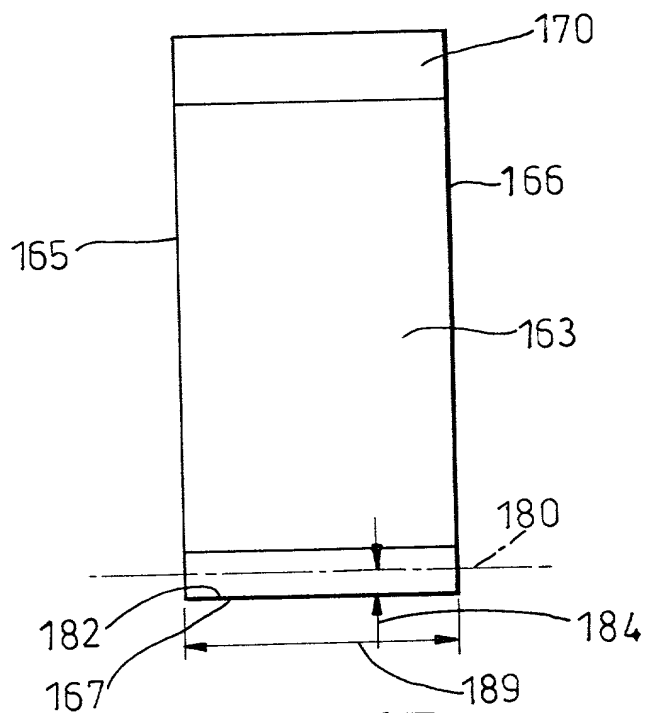


Fig. 16B